



COUNTERSINK, COUNTERBORE OR RADIUS RELIEF TO THREADS WITHIN THE LIMITS OF DIMENSIONS "D" AND 88° MIN ANGLE

88° MIN

WASHER FACE, CHAMFER OR RADIUS RELIEF TO HEX FLATS OPTIONAL

CIRCUMFERENTIALLY NOTCHED CORNERS

30° ± 5°

USER SYMBOL:

REVISION SYMBOLS:
ARMY - AY
NAVY - AS, SH
USAF - 11, 82
DLA - 15

*Changes/revision information is current as of the date of this document. For future contributions of changes to this document, all cancellations should be based on the information in the current DDGSL.

TABLE I

SIZE DASH NUMBER	THREAD	A		B		C MIN	D ±.020	F MIN	BEARING SURFACE SQUARENESS
		MAX	MIN	MAX	MIN				
-3C	10-24UNC-3B	.281	.208	.376	.367	.410	.210	.085	.006
-4C	1/4-20UNC-3B	.360	.240	.439	.430	.482	.273	.116	.007
-4F	1/4-28UNF-3B								
-5C	5/16-18UNC-3B	.360	.271	.502	.492	.552	.336	.123	.007
-5F	5/16-24UNF-3B								
-6C	3/8-16UNC-3B	.469	.318	.564	.553	.622	.398	.153	.008
-6F	3/8-24UNF-3B								
-7C	7/16-14UNC-3B	.469	.435	.690	.679	.766	.467	.178	.008
-7F	7/16-20UNF-3B								
-8C	1/2-13UNC-3B	.610	.575	.752	.741	.837	.531	.221	.009
-8F	1/2-20UNF-3B								
-9C	9/16-12UNC-3B	.704	.623	.877	.865	.978	.594	.243	.010
-9F	9/16-18UNF-3B								
-10C	5/8-11UNC-3B	.766	.732	.940	.928	1.051	.656	.274	.010
-10F	5/8-18UNF-3B								
-12C	3/4-10UNC-3B	.891	.855	1.064	1.052	1.191	.782	.316	.010
-12F	3/4-16UNF-3B								
-14C	7/8-9UNC-3B	1.016	.965	1.252	1.239	1.403	.918	.570	.011
-14F	7/8-14UNF-3B								
-16C	1-8UNC-3B	1.141	1.010	1.440	1.427	1.615	1.044	.635	.012
-16F	1-12UNF-3B								
-18C	1 1/8-7UNC-3B	1.266	1.130	1.627	1.614	1.826	1.171	.710	.013
(c) -18NB	1 1/8-8UN-3B								
-18F	1 1/8-12UNF-3B								
-20C	1 1/4-7UNC-3B	1.454	1.300	1.814	1.801	2.038	1.295	.795	.014
(c) -20NB	1 1/4-8UN-3B								
-20F	1 1/4-12UNF-3B								
-22C	1 3/8-6UNC-3B	1.609	1.547	2.008	1.973	2.232	1.447	.890	.015
(c) -22NB	1 3/8-8UN-3B								
-22F	1 3/8-12UNF-3B								
-24C	1 1/2-6UNC-3B	1.640	1.578	2.197	2.159	2.444	1.568	.980	.016
(c) -24NB	1 1/2-8UN-3B								
-24F	1 1/2-12UNF-3B								
-26C	1 3/4-5UNC-3B	2.376	2.250	2.762	2.715	3.075	1.818	1.250	.018
(c) -26NB	1 3/4-8UN-3B								
-32C	2-4 1/2UNC-3B	2.469	2.343	3.137	3.086	3.497	2.065	1.350	.020
(c) -32NB	2-8UN-3B								
-36C	2 1/4-4 1/2UNC-3B	2.876	2.750	3.514	3.457	3.918	2.328	1.600	.020
(c) -36NB	2 1/4-8UN-3B								
-40C	2 1/2-4UNC-3B	3.204	3.078	4.015	3.875	4.393	2.578	1.800	.020
(c) -40NB	2 1/2-8UN-3B								

- (a) BEARING SURFACE SQUARENESS MEASURED IN ACCORDANCE WITH MIL-N-25027.
- (b) CIRCUMFERENTIAL NOTCHED CORNERS ARE FOR IDENTIFICATION ONLY. NOTCH SHALL NOT EXCEED "B" MINIMUM IN DEPTH.
- (c) CANCELLED AFTER 29 MAY 1968.

ⓔ REVISED AND REDRAWN

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AMSC N/A

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AY	INTERNATIONAL INTEREST SEE NOTE	TITLE NUT, SELF-LOCKING, HEXAGON, REGULAR HEIGHT, 250°F, (NON-METALLIC INSERT) NON-CORROSION-RESISTANT STEEL
		PROCUREMENT SPECIFICATION MIL-N-25027

MILITARY STANDARD		
MS17829		
SHEET	1	OF 3

REVISION SYMBOLS:
ARMY - AY
NAVY - AS, SH
USAF - 11, B2
DLA - 15

"Reviewers' names and information is current as of the date of this document. For future identification of changes in this document, all circulation should be based on the information in the current DODDSB."

TABLE II

SIZE DASH NUMBER	AXIAL STRENGTH POUNDS MIN	MINIMUM ULTIMATE WRENCH TORQUE (IN-LB)	WEIGHT LB/100 REF	MAXIMUM LOCKING TORQUE INSTALLATION OR REMOVAL (IN-LB)	MINIMUM BREAKAWAY TORQUE (IN-LB)
	(d)				
-3C	2,010	40	.56	↑ PER MIL-N-25027 ↓	↑ PER MIL-N-25027 ↓
-4C	4,770	85			
-4F	5,460	115	1.30		
-5C	7,860	185			
-5F	8,700	260	1.95		
-6C	11,620	315			
-6F	13,170	450	3.35		
-7C	15,940	550			
-7F	17,800	885	4.65		
-8C	21,300	1,000			
-8F	24,000	1,250	7.67		
-9C	27,300	1,300			
-9F	30,400	1,850	8.97		
-10C	33,900	1,725			
-10F	38,400	2,725	12.96		
-12C	50,100	2,875			
-12F	56,000	4,775	20.52		
-14C	69,300	5,300			
-14F	76,400	7,575	29.16		
-16C	90,900	8,750			
-16F	99,400	10,900			
-18C	114,000	13,100	44.28	900	137.0
-18F	128,400	14,800			139.0
-20C	145,000	17,600			117.0
-20F	161,000	20,000	62.64	1000	165.0
-22C	173,000				155.0
-22F	197,000		83.16	1200	143.0
-24C	211,000				200.0
-24F	237,200		108.00	1400	198.0
-28C	285,000				180.0
-28F	375,000		259.20	1800	230.0
-32C	487,500				220.0
-32F	600,000	20,000	334.80	2200	210.0
-36C					300.0
-36F			486.00	2600	290.0
-40C					360.0
-40F			735.50	3000	345.0
					430.0
					500.0
					468.0

(d) AXIAL STRENGTH FOR THREAD SIZE NO. 10-24UNC-3B NUTS IS BASED ON 125,000 P.S.I.

MATERIAL:

- (E) 1. STEEL TYPE C1137 OF FED-STD-66 OR CARBON OR ALLOY STEEL MIL-5-1222, C1137 STEEL MAY CONTAIN FROM 0.15 TO 0.35 PERCENT LEAD.
- (E) 2. THE INSERT SHALL BE IN ACCORDANCE WITH ASTM D4066, GROUP 1, CLASS 1, GRADE 1.

INTERNATIONAL INTEREST:

CERTAIN PROVISIONS (LIMITS FOR ACROSS FLATS DIMENSION) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ABC AIR STD 17/2 WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED, THE DEPARTMENTAL CUSTODIAN WILL INFORM THEIR RESPECTIVE DEPARTMENTAL STANDARDIZATION OFFICE SO THAT APPROPRIATE ACTION MAY BE TAKEN RESPECTING THE INTERNATIONAL AGREEMENT CONCERNED.

IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.

REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

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APPROVED 5 APRIL 1962 REVISED (E) FOR CHANGES SEE SHEETS 2 AND 3

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AY	INTERNATIONAL INTEREST SEE NOTE	TITLE	MILITARY STANDARD MS17829			
		NUT, SELF-LOCKING, HEXAGON, REGULAR HEIGHT, 250°F, (NON-METALLIC INSERT) NON-CORROSION-RESISTANT STEEL				
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES:	MIL-N-24129/2 (SHIPS) MS17829 (SHIPS)	SHEET	2	OF	3

LOCKING DEVICE: THE LOCKING DEVICE SHALL BE A RING OR COLLAR INSERT CAPABLE OF COMPLETELY CIRCUMFERENTIAL THREAD ENGAGEMENT FOR AT LEAST ONE FULL THREAD.

THREADS: THREADS SHALL BE "RIGHT-HAND", UNIFIED COARSE OR UNIFIED FINE IN ACCORDANCE WITH H-2B, CLASS 3B FIT EXCEPT THAT MINOR DIAMETER REQUIREMENTS OF MIL-S-8879 MAY APPLY.

(E) PLATING: CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416, TYPE II, CLASS 3, OR ZINC PLATE IN ACCORDANCE WITH ASTM-B-633-78, FE/Zn 8, TYPE II.

PERMANENT SET: NOT APPLICABLE TO SIZES LARGER THAN 1-1/4.

BREAK ALL SHARP EDGES AND REMOVE BURRS AND SLIVERS.

SURFACE ROUGHNESS IN ACCORDANCE WITH USAS B 46.1 1962. UNLESS OTHERWISE SPECIFIED THE SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICROINCH.

DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED.

(E) EXAMPLE OF PART NUMBER: **MS17829 - 3C**

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    |
    |----- DASH NUMBER FROM TABLE 1
    |
    |----- "-" DENOTES CADMIUM PLATE
    |
    |----- "Z" DENOTES ZINC PLATE
    |
    |----- STANDARD NUMBER
    
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INTERCHANGEABILITY RELATIONSHIP: MS17829 NUTS ARE UNIVERSALLY INTERCHANGEABLE WITH MIL-N-24129/2B (SHIPS) AND MS24129 (SHIPS).

TABLE 111

INTERCHANGEABILITY TABLE		
CANCELLED		UNIVERSALLY INTERCHANGEABLE
MS17829 (SHIPS)	MIL-N-24129/2B (SHIPS)	MS17829
-----	M24129/2- 3C	MS17829- 3C
MS17829- 4C	M24129/2- 4C	MS17829- 4C
MS17829- 4F	M24129/2- 4F	MS17829- 4F
MS17829- 5C	M24129/2- 5C	MS17829- 5C
MS17829- 5F	M24129/2- 5F	MS17829- 5F
MS17829- 6C	M24129/2- 6C	MS17829- 6C
MS17829- 6F	M24129/2- 6F	MS17829- 6F
MS17829- 7C	M24129/2- 7C	MS17829- 7C
MS17829- 7F	M24129/2- 7F	MS17829- 7F
MS17829- 8C	M24129/2- 8C	MS17829- 8C
MS17829- 8F	M24129/2- 8F	MS17829- 8F
MS17829- 9C	M24129/2- 9C	MS17829- 9C
MS17829- 9F	M24129/2- 9F	MS17829- 9F
MS17829-10C	M24129/2-10C	MS17829-10C
MS17829-10F	M24129/2-10F	MS17829-10F
MS17829-12C	M24129/2-12C	MS17829-12C
MS17829-12F	M24129/2-12F	MS17829-12F
MS17829-14C	M24129/2-14C	MS17829-14C
MS17829-14F	M24129/2-14F	MS17829-14F
MS17829-16C	M24129/2-16C	MS17829-16C
MS17829-16F	M24129/2-16F	MS17829-16F
MS17829-18C	M24129/2-18C	MS17829-18C
-----	M24129/2-18NOB	MS17829-18NOB
MS17829-18F	M24129/2-18F	MS17829-18F
MS17829-20C	M24129/2-20C	MS17829-20C
-----	M24129/2-20NOB	MS17829-20NOB
MS17829-20F	M24129/2-20F	MS17829-20F
MS17829-22C	M24129/2-22C	MS17829-22C
-----	M24129/2-22NOB	MS17829-22NOB
MS17829-22F	M24129/2-22F	MS17829-22F
MS17829-24C	M24129/2-24C	MS17829-24C
-----	M24129/2-24NOB	MS17829-24NOB
MS17829-24F	M24129/2-24F	MS17829-24F
MS17829-28C	M24129/2-28C	MS17829-28C
-----	M24129/2-28NOB	MS17829-28NOB
MS17829-32C	M24129/2-32C	MS17829-32C
-----	M24129/2-32NOB	MS17829-32NOB
MS17829-36C	M24129/2-36C	MS17829-36C
-----	M24129/2-36NOB	MS17829-36NOB
MS17829-40C	M24129/2-40C	MS17829-40C
-----	M24129/2-40NOB	MS17829-40NOB

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AMSC N/A

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AY	INTERNATIONAL INTEREST SEE NOTE	TITLE NUT, SELF-LOCKING, HEXAGON, REGULAR HEIGHT, 250°F. (NON-METALLIC INSERT) NON-CORROSION-RESISTANT STEEL	MILITARY STANDARD	
			MS17829	
PROCUREMENT SPECIFICATION MIL-N-25027		SUPERSEDES: MIL-N-24129/2 (SHIPS) MS17829 (SHIPS)	SHEET 3 OF 3	